Chun-Yang Cheng

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Experience

System Administrator — Sprout Project
Sprout Project, NTU CSIE — *Nov 2024 - Now*

- Maintainer of the registration system and pretest system used by **500+ students** annually
- Managed user accounts and survey responses

Honours and Awards

Silver Award — ICPC Asia Taichung Regional Programming Contest
ICPC.FOUNDATION — *Nov 2025*

CAVES Cosmos Communicator Award — NASA International Space Apps Challenge
NASA — *Oct 2025*

- Developed a web application that predicts and visualises the celestial bodies for exoplanet candidates
- Provided **7 customisable algorithms** in Machine Learning for scientists to experiment with
- Over **97% accuracy** in distinguishing exoplanets from false positive signals

Gold Medal — Taiwan Online Programming Contest
ICPC.FOUNDATION — *Sep 2025*

1st Place — EECS Design and Implementation Robot Car Contest
NTU EE — *Apr 2025*

- Implemented a **98% turn accuracy** pathfinding algorithm using infrared sensors and PID control
- Developed a real-time route planning algorithm in Python to dynamically calculate optimal paths for the robot car

1st Place — Young Turing Project
SYSTEX Corporation — *Mar 2025*

Research and Projects

Real-World Multi-Agent Foosball Robot (Ongoing) — cy-cheng/foosball-robot

- Exploring computer vision techniques for ball tracking
- Designing a real-to-sim then sim-to-real pipeline for multi-agent reinforcement learning

PaTiENZ: Virtual Patient Medical Training System — cy-cheng/patienz

Advisor: Prof. Che Lin

- Accepted for **AMEE 2025 Short Communication** as:
  - *"Integrating Generative AI in Virtual Human Assited Self Directed Learning - The Pilot Survey for Feasibility"*
- Over **90%** lower training costs for clinical examination practice compared to traditional standardised patients
- Engineered AI patient with configurable clinical scenarios backed by real-world clinical knowledge via RAG

Real-Time Marble Labyrinth Solver — ANCuber/intel-car-final

- An automated marble labyrinth solver using Python for computer vision and Arduino for motor control
- Solves **20% faster** than average first-time human solver

Education

National Taiwan University — Undergraduate in Computer Science & Information Engineering
Rank in Class: 1/134
Cumulative GPA: 4.24/4.30 — *Sep 2024 - Now*

Skills

Programming Languages	C, C++, Python
Technologies	Linux System Administration, Git, Arduino, Raspberry Pi
Coursework	Robotics, Machine Learning, Arduino, Algorithms & Data Structures
Spoken Languages	Mandarin (native), English (C1), German (A2)